

Method for the impedimetric detection of one or more analytes in a sample, and device for use therein

Abstract

Method for detecting at least one analyte, and device for performing the method comprising a measurement electrode having a biofunctional surface having recognition elements for the analyte, and one or more counterelectrodes. Analyte labeled with electrically active labeling units is brought into contact with the
5 biofunctional surface. Either (a) a time-varying voltage or (b) a time-varying current is applied between a first counterelectrode and the measurement electrode. A measurement is made of either in case (a) the current or in case (b) the voltage between the first counterelectrode and the measurement electrode. Alternatively, a measurement is made of either in case (a) the current or in case (b) the voltage
10 between a second or subsequent counterelectrode and the measurement electrode. This abstract is submitted with the understanding that it will not be used to interpret or limit the meaning or scope of the claims. 37 CFR § 1.72(b).